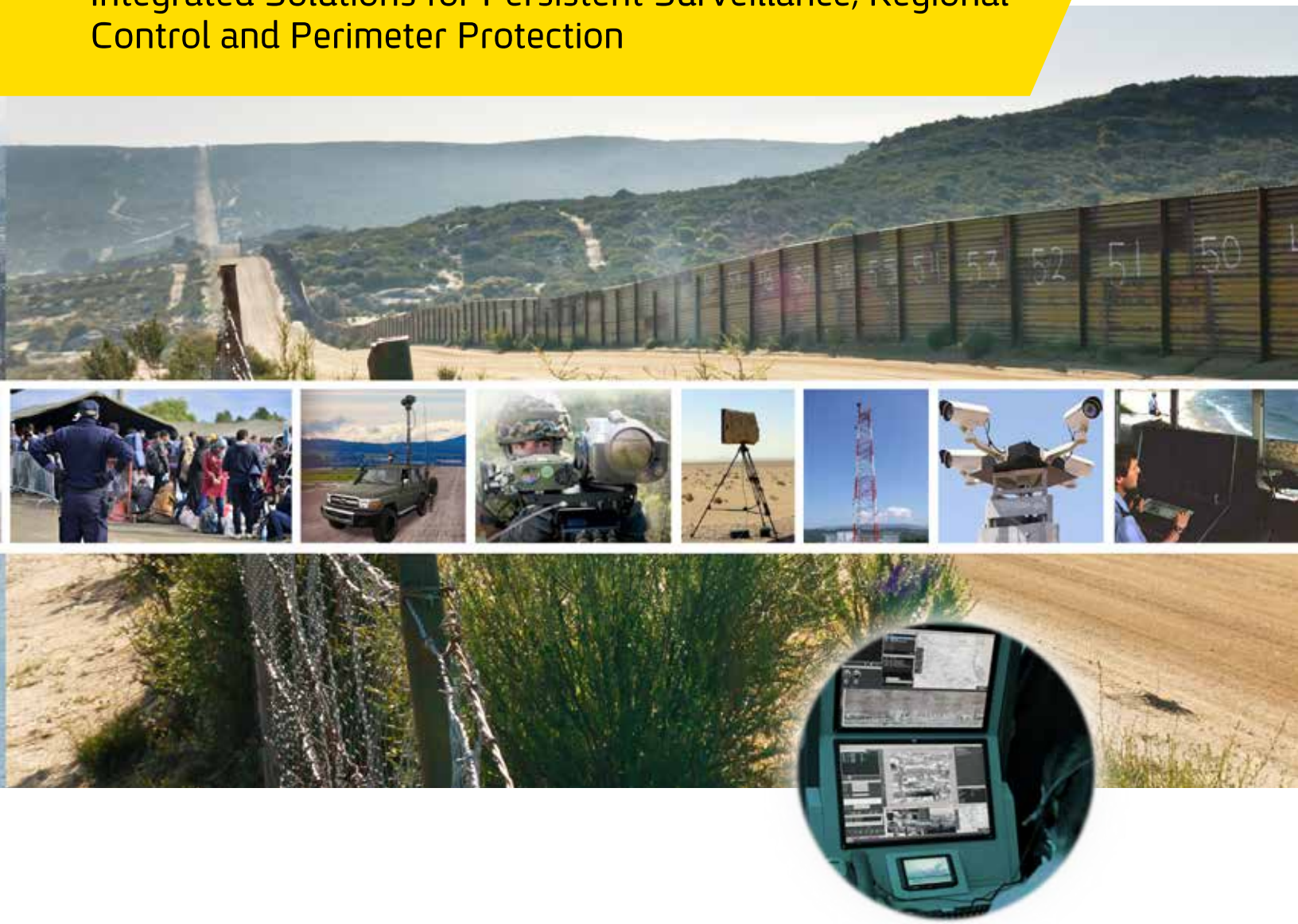
Border Security Solutions

Integrated Solutions for Persistent Surveillance, Regional Control and Perimeter Protection



Elbit Systems™
Land and C4I

Border Security Solutions

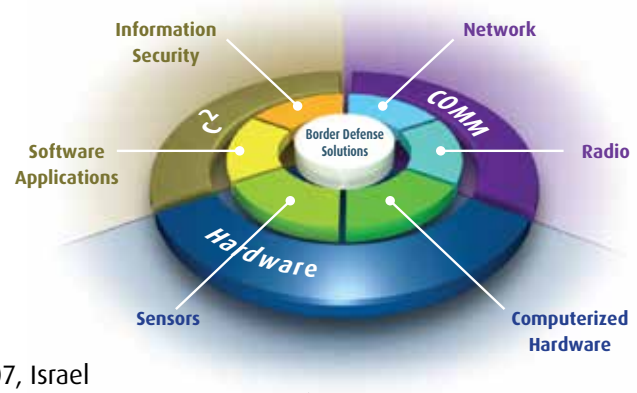
Integrated Solutions for Persistent Surveillance, Regional Control and Perimeter Protection

Key Features

- Spatial ISR resource management and optimized sensor tasking
- Video streaming and Imagery data exploitation
- Abnormal activities monitoring
- Immediate Early-Warning and threat assessment
- Online information gathering from all regional sources and resources
- Common track picture, based on advanced data correlation algorithms
- Comprehensive intelligence and spatial situation pictures generation
- Effective sensor-to-responder dialogue

Key Benefits

- Monitors and controls national territory border zones
- Estimates illegal traffic actions and anticipates illegal border activities
- Observes and traces illegal cross-border events within the ground, naval and aerial border-zones
- Establishes common situation awareness among the whole Border-Security array
- Speeds up the decision-action cycle at the tactical, regional and strategic levels
- Coordinates and conducts border patrol activities in support of frontier events.
- Interoperates and utilizes narrow-band and wide-band communication solutions
- Achieves complete interoperability with federal , governmental and civil systems and agencies



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Border Security Domains

- **Tactical ISR Domain**

  Provides regional surveillance, situational awareness, and ISR operations control, by GSR systems, unmanned airborne solutions (Skylark and Hermes UAV family), unmanned ground vehicles (UGV's), mobile observation and unattended ground sensor (UGS) systems.

- **Border Protection Domain**

  Provides border monitoring and protection, based on surveillance and acquisition means (observation towers, radar posts, fixed cameras, smart fence, video surveillance vehicles, unmanned platforms), mobile and deployed command posts and border patrol units (Federal Units, Border Agents, Air Patrol).

- **Maritime Surveillance Domain**

  Provides maritime border Security, port protection, and fishery control, based on surveillance arrays (shore radar stations, observation posts, UAV's, patrol boats, maritime air-patrols, naval patrols), control centers and multi-zone response units (coast guard, navy vessels, aero-naval platforms, marines).

Border Security Solutions

Detect, Track, Classify and Resolve

Persistent Surveillance requires multi-layered surveillance and control solutions

Elbit System's Border Security Solution Suites (BSS) incorporate complete and autonomous border protection solutions in support of Law Enforcement, Counter-Terrorism and Homeland Security, providing real-time regional surveillance, early warning, border-patrol mission management and targeting. BSS delivers a full-scale solution for stationary control centers, deployed command posts, and tactical patrol agents within all operational zones. The system improves terrestrial and maritime security, regional control and border protection, enables complete real-time connectivity across the whole border-security array and allows optimum coordination of Intelligence, Surveillance and Reconnaissance (ISR) efforts throughout the national territory operational zones and along the country borders.

An integrated solution utilizing advanced radars, observation systems and unmanned platforms

BSS Solution Suite integrates a variety of Surveillance and Early-Warning sub-systems including best-in-class radars, sensors and tactical observation systems, enabling online monitoring, accurate classification and rapid reaction in all modes of operation. BSS incorporates superior communication and coordination proficiencies as well as clear tactics and doctrines to guide border security immediate action.

Unified and Coherent Situational Awareness for all system domains

BSS generates and maintains an integrated regional situation picture that is continuously distributed across the border-security control sites and patrol units and is the basis for early-warning, threat analysis, ISR resource allocation, alert generation, and border control mission assignment.

Advanced services and tools establish a full-scale C^4I solution

Flexible and scalable, BSS 's advanced tools and services include comprehensive C^4ISR capabilities (TORC^{2}H^{TM} application based) as well as GIS, imagery, full data management capabilities and high-end communication services. BSS features seamless interoperability and connectivity with external C^4I systems as well as with governmental and civil agencies via oriented interfaces and standard protocols.

Dynamic Network Connectivity in all modes of operation

BSS utilizes sophisticated and advanced communication infrastructure which is responsible for voice, data and video connectivity by various communication means. It incorporates a variety of communication services; thus achieving dynamic network connectivity, availability and flexibility with complete compatibility to public and military communication standards during routine and crisis situations.